

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/712,359 A
Source: IFWO
Date Processed by STIC: 10-25-04

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IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/712,359A

DATE: 10/25/2004

TIME: 11:45:50

Input Set : A:\27908007.app

Output Set: N:\CRF4\10252004\J712359A.raw

3 <110> APPLICANT: CHANG, Y-H
 4 VETRO, J.A.
 5 MICKA, W.S.
 7 <120> TITLE OF INVENTION: DOMINANT NEGATIVE VARIANTS OF METHIONINE AMINOPEPTIDASE
 8 2 ("METAP2") AND CLINICAL USES THEREFOR
 10 <130> FILE REFERENCE: 2790/66153/8007
 12 <140> CURRENT APPLICATION NUMBER: 10/712,359A
 13 <141> CURRENT FILING DATE: 2003-11-13
 15 <150> PRIOR APPLICATION NUMBER: 09/943,123
 16 <151> PRIOR FILING DATE: 2001-08-30
 18 <160> NUMBER OF SEQ ID NOS: 26
 20 <170> SOFTWARE: PatentIn Ver. 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 71
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo Sapiens
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Human polylysine
 30 <400> SEQUENCE: 1
 31 Lys Lys Lys Arg Arg Lys Lys Lys Lys Ser Lys Gly Pro Ser Ala Ala
 32 1 5 10 15
 34 Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val Asp Glu Val
 35 20 25 30
 37 Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu Arg Asp Glu
 38 35 40 45
 40 Asp Asp Glu Asp Gly Asp Gly Asp Gly Ala Thr Gly Lys Lys
 41 50 55 60
 43 Lys Lys Lys Lys Lys Lys
 44 65 70
 47 <210> SEQ ID NO: 2
 48 <211> LENGTH: 71
 49 <212> TYPE: PRT
 50 <213> ORGANISM: Mus musculus
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Mouse polylysine
 55 <400> SEQUENCE: 2
 56 Lys Lys Lys Arg Arg Lys Lys Lys Lys Gly Lys Gly Ala Val Ser Ala
 57 1 5 10 15
 59 Val Gln Gln Glu Leu Asp Lys Glu Ser Gly Ala Leu Val Asp Glu Val
 60 20 25 30
 62 Ala Lys Gln Leu Glu Ser Gln Ala Leu Glu Glu Lys Glu Arg Asp Asp
 63 35 40 45
 65 Asp Asp Glu Asp Gly Asp Gly Asp Ala Asp Gly Ala Thr Gly Lys Lys

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66      50      55      60
68 Lys Lys Lys Lys Lys Lys Lys
69 65      70
72 <210> SEQ ID NO: 3
73 <211> LENGTH: 57
74 <212> TYPE: PRT
75 <213> ORGANISM: Saccharomyces sp.
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Saccharomyces polylysine
80 <400> SEQUENCE: 3
81 Thr Asp Ala Glu Ile Glu Asn Ser Pro Ala Ser Asp Leu Lys Glu Leu
82 1      5      10      15
84 Asn Leu Glu Asn Glu Gly Val Glu Gln Gln Asp Gln Ala Lys Ala Asp
85      20      25      30
87 Glu Ser Asp Pro Val Glu Ser Lys Lys Lys Lys Asn Lys Lys Lys Lys
88      35      40      45
90 Lys Lys Lys Ser Asn Val Lys Lys Ile
91      50      55
94 <210> SEQ ID NO: 4
95 <211> LENGTH: 35
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
101      oligonucleotide
103 <400> SEQUENCE: 4
104 caaccattgt gctgcagctt tcacacccaa tgca          35
107 <210> SEQ ID NO: 5
108 <211> LENGTH: 35
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
114      oligonucleotide
116 <400> SEQUENCE: 5
117 ctgcattggg tgtgaaagct gcagcacaat gggtg          35
120 <210> SEQ ID NO: 6
121 <211> LENGTH: 478
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo Sapiens
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Human dnvMetAP2
128 <220> FEATURE:
129 <221> NAME/KEY: SITE
130 <222> LOCATION: (219)
131 <223> OTHER INFORMATION: May be any naturally occurring amino acid
133 <220> FEATURE:
134 <221> NAME/KEY: SITE
135 <222> LOCATION: (231)

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136 <223> OTHER INFORMATION: May be any amino acid, except His
138 <220> FEATURE:
139 <221> NAME/KEY: SITE
140 <222> LOCATION: (251)
141 <223> OTHER INFORMATION: May be any naturally occurring amino acid
143 <220> FEATURE:
144 <221> NAME/KEY: SITE
145 <222> LOCATION: (262)
146 <223> OTHER INFORMATION: May be any naturally occurring amino acid
148 <220> FEATURE:
149 <221> NAME/KEY: SITE
150 <222> LOCATION: (328)
151 <223> OTHER INFORMATION: May be any naturally occurring amino acid
153 <220> FEATURE:
154 <221> NAME/KEY: SITE
155 <222> LOCATION: (331)
156 <223> OTHER INFORMATION: May be any naturally occurring amino acid
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160 <222> LOCATION: (338)..(339)
161 <223> OTHER INFORMATION: May be any naturally occurring amino acid
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164 <221> NAME/KEY: SITE
165 <222> LOCATION: (364)
166 <223> OTHER INFORMATION: May be any naturally occurring amino acid
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170 <222> LOCATION: (444)
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174 <221> NAME/KEY: SITE
175 <222> LOCATION: (447)
176 <223> OTHER INFORMATION: May be any naturally occurring amino acid
178 <220> FEATURE:
179 <221> NAME/KEY: SITE
180 <222> LOCATION: (459)
181 <223> OTHER INFORMATION: May be any naturally occurring amino acid
183 <400> SEQUENCE: 6
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185   1           5           10           15
187 Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly Ala Ala Ser Thr Ala Glu
188           20           25           30
190 Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys Lys Lys Ser Lys Gly Pro
191           35           40           45
193 Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys Glu Ser Gly Ala Ser Val
194           50           55           60
196 Asp Glu Val Ala Arg Gln Leu Glu Arg Ser Ala Leu Glu Asp Lys Glu
197  65           70           75           80
199 Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly Asp Gly Asp Gly Ala Thr

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200          85          90          95
202 Gly Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Pro Lys Val Gln
203          100          105          110
205 Thr Asp Pro Pro Ser Val Pro Ile Cys Asp Leu Tyr Pro Asn Gly Val
206          115          120          125
208 Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro Pro Thr Gln Asp Gly Arg
209          130          135          140
211 Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu Lys Lys Ala Leu Asp Gln
212 145          150          155          160
214 Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg Glu Ala Ala Glu Ala His
215          165          170          175
217 Arg Gln Val Arg Lys Tyr Val Met Ser Trp Ile Lys Pro Gly Met Thr
218          180          185          190
220 Met Ile Glu Ile Cys Glu Lys Leu Glu Asp Cys Ser Arg Lys Leu Ile
221          195          200          205
W--> 223 Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala Xaa Pro Thr Gly Cys Ser
224          210          215          220
226 Leu Asn Asn Cys Ala Ala Xaa Tyr Thr Pro Asn Ala Gly Asp Thr Thr
227 225          230          235          240
229 Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile Xaa Phe Gly Thr His Ile
230          245          250          255
232 Ser Gly Arg Ile Ile Xaa Cys Ala Phe Thr Val Thr Phe Asn Pro Lys
233          260          265          270
235 Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp Ala Thr Asn Thr Gly Ile
236          275          280          285
238 Lys Cys Ala Gly Ile Asp Val Arg Leu Cys Asp Val Gly Glu Ala Ile
239          290          295          300
241 Gln Glu Val Met Glu Ser Tyr Glu Val Glu Ile Asp Gly Lys Thr Tyr
242 305          310          315          320
244 Gln Val Lys Pro Ile Arg Asn Xaa Asn Gly Xaa Ser Ile Gly Gln Tyr
245          325          330          335
247 Arg Xaa Xaa Ala Gly Lys Thr Val Pro Ile Val Lys Gly Gly Glu Ala
248          340          345          350
250 Thr Arg Met Glu Glu Gly Glu Val Tyr Ala Ile Xaa Thr Phe Gly Ser
251          355          360          365
253 Thr Gly Lys Gly Val Val His Asp Asp Met Glu Cys Ser His Tyr Met
254          370          375          380
256 Lys Asn Phe Asp Val Gly His Val Pro Ile Arg Leu Pro Arg Thr Lys
257 385          390          395          400
259 His Leu Leu Asn Val Ile Asn Glu Asn Phe Gly Thr Leu Ala Phe Cys
260          405          410          415
262 Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser Lys Tyr Leu Met Ala Leu
263          420          425          430
265 Lys Asn Leu Cys Asp Leu Gly Ile Val Asp Pro Xaa Pro Pro Xaa Cys
266          435          440          445
268 Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe Xaa His Thr Ile Leu Leu
269          450          455          460
271 Arg Pro Thr Cys Lys Glu Val Val Ser Arg Gly Asp Asp Tyr
272 465          470          475

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Input Set : A:\27908007.app

Output Set: N:\CRF4\10252004\J712359A.raw

275 <210> SEQ ID NO: 7
276 <211> LENGTH: 478
277 <212> TYPE: PRT
278 <213> ORGANISM: Mus musculus
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Mouse MetAP2
283 <220> FEATURE:
284 <221> NAME/KEY: SITE
285 <222> LOCATION: (219)
286 <223> OTHER INFORMATION: May be any naturally occurring amino acid
288 <220> FEATURE:
289 <221> NAME/KEY: SITE
290 <222> LOCATION: (231)
291 <223> OTHER INFORMATION: May be any amino acid, except His
293 <220> FEATURE:
294 <221> NAME/KEY: SITE
295 <222> LOCATION: (251)
296 <223> OTHER INFORMATION: May be any naturally occurring amino acid
298 <220> FEATURE:
299 <221> NAME/KEY: SITE
300 <222> LOCATION: (262)
301 <223> OTHER INFORMATION: May be any naturally occurring amino acid
303 <220> FEATURE:
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305 <222> LOCATION: (328)
306 <223> OTHER INFORMATION: May be any naturally occurring amino acid
308 <220> FEATURE:
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310 <222> LOCATION: (331)
311 <223> OTHER INFORMATION: May be any naturally occurring amino acid
313 <220> FEATURE:
314 <221> NAME/KEY: SITE
315 <222> LOCATION: (338)..(339)
316 <223> OTHER INFORMATION: May be any naturally occurring amino acid
318 <220> FEATURE:
319 <221> NAME/KEY: SITE
320 <222> LOCATION: (364)
321 <223> OTHER INFORMATION: May be any naturally occurring amino acid
323 <220> FEATURE:
324 <221> NAME/KEY: SITE
325 <222> LOCATION: (444)
326 <223> OTHER INFORMATION: May be any naturally occurring amino acid
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329 <221> NAME/KEY: SITE
330 <222> LOCATION: (447)
331 <223> OTHER INFORMATION: May be any naturally occurring amino acid
333 <220> FEATURE:
334 <221> NAME/KEY: SITE
335 <222> LOCATION: (459)

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/25/2004
PATENT APPLICATION: US/10/712,359A TIME: 11:45:51

Input Set : A:\27908007.app
Output Set: N:\CRF4\10252004\J712359A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459
Seq#:7; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459
Seq#:8; Xaa Pos. 162,174,194,205,271,274,281,282,307,387,390,402
Seq#:9; N Pos. 693
Seq#:10; N Pos. 693
Seq#:11; N Pos. 522
Seq#:16; Xaa Pos. 219,231,251,262,328,331,338,339,364,444,447,459
Seq#:18; N Pos. 779

VERIFICATION SUMMARY

DATE: 10/25/2004

PATENT APPLICATION: US/10/712,359A

TIME: 11:45:51

Input Set : A:\27908007.app

Output Set: N:\CRF4\10252004\J712359A.raw

L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:208
M:341 Repeated in SeqNo=6
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:208
M:341 Repeated in SeqNo=7
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:160
M:341 Repeated in SeqNo=8
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:660
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:480
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:208
M:341 Repeated in SeqNo=16
L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:720